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API# 15-193-20,777-00-00

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

OPERATOR Russell Oil, Inc.
 LEASE Paul Beckman 'A' WELL NO. 1-14
 FIELD Wildcat
 LOCATION 2070' FSL; 830' FEL
 SEC. 14 TWP. 10^s RGE. 31^w
 COUNTY Thomas STATE KS

ELEVATION
 KB 2913'
 DF -
 GL 2902'
 Measurements Are All
 From KB

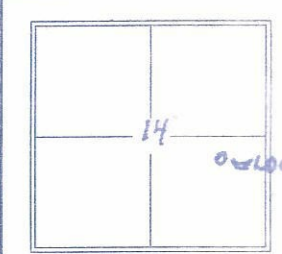
CASING RECORD
 SURFACE 8 5/8" @ 254'

PRODUCTION
D4A

ELECTRICAL SURVEYS
RAG by
log-tech

CONTRACTOR H2 Drlg - Rig #2
 COMM. 8-26-10 COMP. 9-4-10
 RTD 4600' LOG TO 4600'
 SAMPLES SAVED FROM 3700' TO TD
 DRILLING TIME KEPT FROM 3600' TO TD
 SAMPLES EXAMINED FROM 3700' TO TD
 GEOLOGICAL SUPERVISION FROM 3735' TO TD
 MUD UP 3390' TYPE MUD Chemical

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
Anhydrite	2478	(+438)	2475	(+438)	
B. Anhydrite	2509	(+404)			
Heebner	3926	(-1012)	3931	(-1018)	
Toronto	3950	(-1037)	3953	(-1040)	
Hansing	3968	(-1055)	3969	(-1056)	
Stark	4183	(-1270)	4187	(-1274)	
Base KC	4242	(-1329)	4241	(-1328)	
Marmaton	4266	(-1353)	4267	(-1354)	
Pownee	4371	(-1458)	4366	(-1453)	
Ft. Scott	4439	(-1526)	4435	(-1522)	
Cherokee	4465	(-1552)	4467	(-1554)	



REFERENCE WELL FOR STRUCTURAL COMPARISON _____

DRILL STEM TESTS

No.	Interval	IFP/Time	ISP/Time	FFP/Time	FSFP/Time	INH-FIH	RECOVERY
1	4155-4187	48-48 / 15"	115 / 30"	48-49 / 15"	92 / 30"	2059-2025	62' Mud
2	4182-4245	27-31 / 15"	1120 / 30"	33-38 / 15"	997 / 30"	2128-2041	15' Mud

REMARKS AND RECOMMENDATIONS
 Based on the lack of development of projected zones, coupled with negative DST results, it was recommended that this well be plugged at the RTD of 4600'

Respectfully submitted,

STEVEN P. MURPHY
 LICENSED
 GEOLOGIST
 11/4/10
 KANSAS

3700

L.S: cream-gry, fxlh, p-tr
inclin, foss, silchally (NS)

K.S: wh-gry, fxlh, fr inclin
foss, silchally (NS)

Sh: dk gry-grn

K.S: cream-tan-gry, fxlh,
fr inclin-vng, foss, chally (NS)

K.S: cream-tan, fxlh, oolic
gd vng, silchally (NS)

Sh: blk, carb

S.S: gry, f-gr, friable NS
shaly

Sh: grn-gry-brn

K.S: wh-cream, vfxlh, dense
(NS)

Sh: narrow

L.S: wh-cream, vfxlh, dense
(NS)

Sh: blk

L.S: wh-tan, fxlh, foss in
pt, oolic, fr oom. p (NS)

K.S: wh-tan, fxlh, foss, oolic,
gd oim/vng, chally (NS)

K.S: wh-gry, vshly dense,
chally (NS)

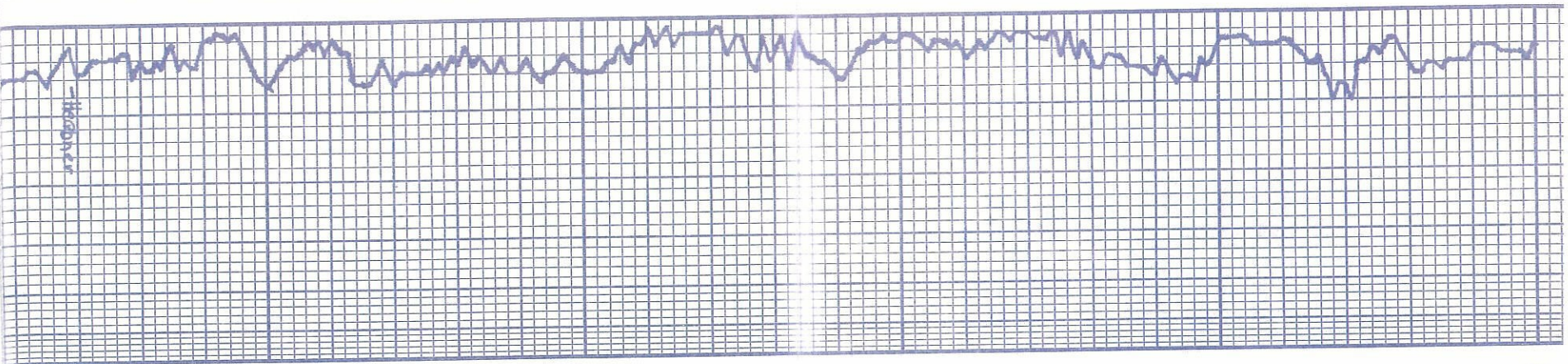
Sh: blk, carb

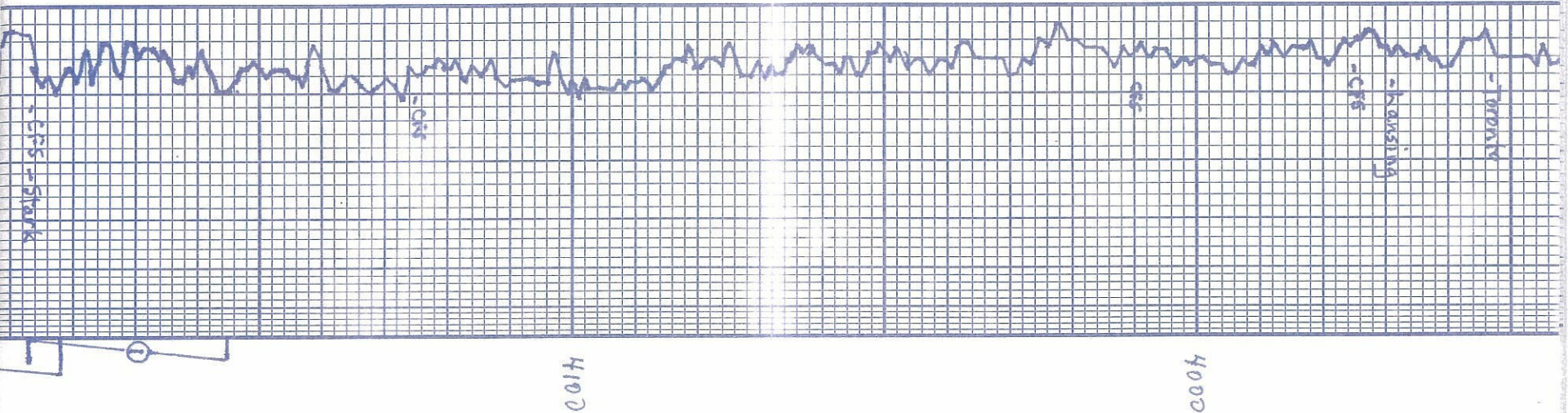
Sh: as above w/ carb

3800

3900

3700

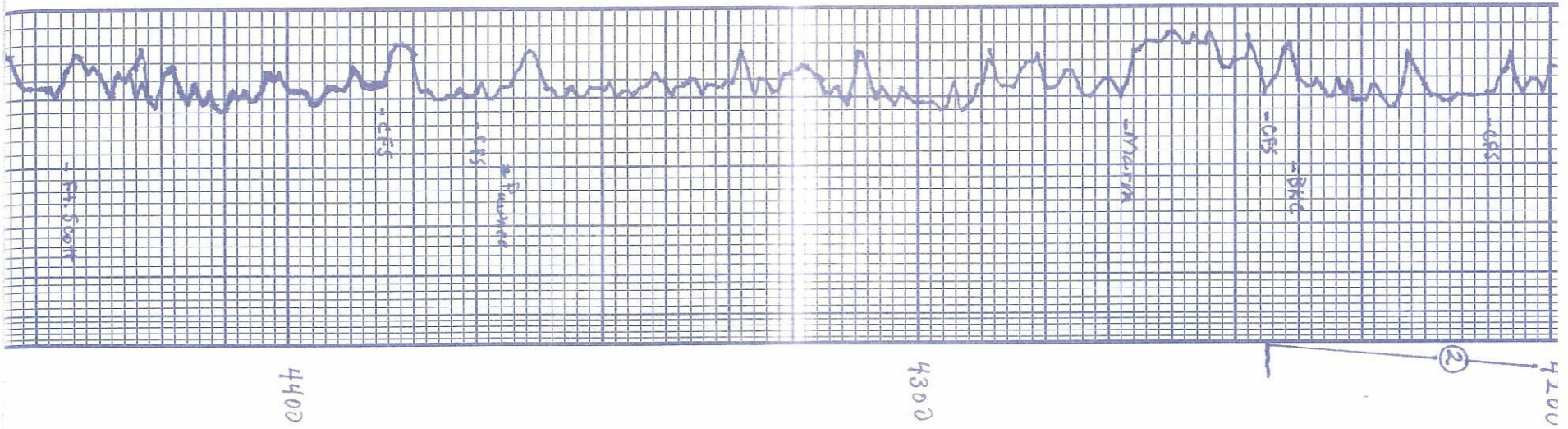




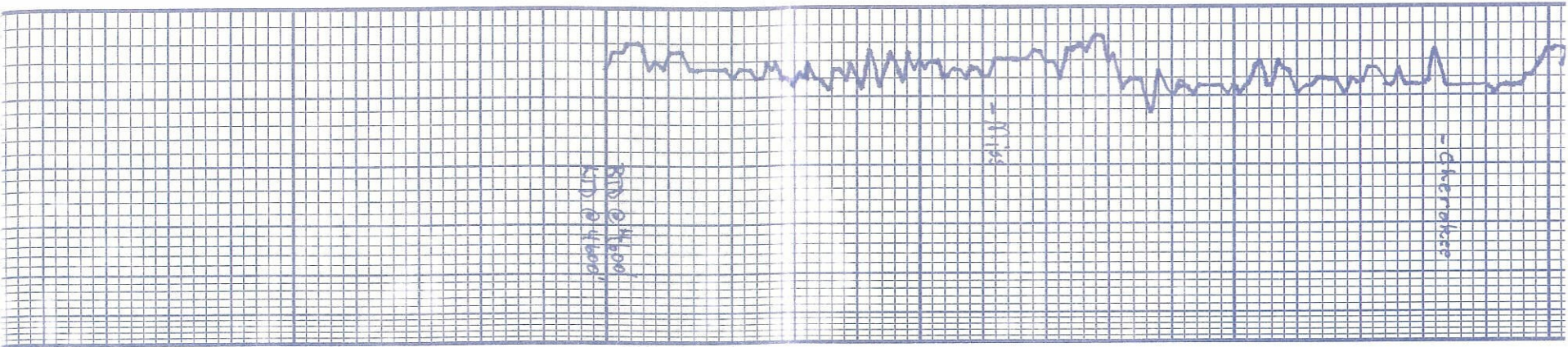
KS: wh-tan, fxl, snc
Pr indn ϕ , chalking (NS)
SH: gry-grn
KS: crm-gry, fxl, sl, fobs, chalking (NS)
SH: blk-gry-grn-brn
KS: crm, fxl, sl, fobs, sl, chalking (NS)
SH: gry-grn-brn
KS: wh-gry, vfxln, dense (NS)
SH: gry-grn-brn
KS: wh-gry, vfxln, dense, chalking (NS)
SH: blk
SH: blk-grn-gry-brn
KS: wh-tan, vfxln, sl, chalking dense (NS)
KS: as above w/ 1 pc w/ fr ϕ + minor stn (no odor)
SH: blk-gry-grn
KS: crm-gry, vfxln, dense, chalking (NS)
SH: gry-grn-brn
KS: wh-tan, fxl, fr ppt ϕ , SSFO, soatt stn, sl, odor

Strip Pipe @ 4187'
 7' long, no correction
 Survey @ 4187-misrun
 DST#1 (4155-4187)
 IS: 30:15:30
 IF: 1 1/2" blow, diol 12min
 IST: No return
 FE: No Blow, flushed, NB
 FSI: No return
 Rec: 62' Mud
 IHP: 2059
 IFP: 48-48
 ISIP: 115
 EFP: 48-49
 FSIP: 92
 FHP: 2025
 BHT: 120°f
 Survey @ 4245'-1°
 DST#2 (4182-4245)
 IS: 30:15:30
 IF: 3' blow, diol 10min
 IST: No return
 FE: No Blow, flushed, NB
 FSI: No return
 Rec: 15' Mud

ISIP: 1120
 FPP: 33-38
 FSP: 997
 FHP: 2041
 BHT: 1190F



LS: gm-gry, f-wfxln, sl. foss, dense (NS) - (higher part of wh. is open to f-wfxln)	LS: gm-tan, vfxln, dense (NS)
SH: blk, carb	LS: gm-tan, vfxln, dense (NS)
LS: cm-brn-gry, vfxln, mostly dense, rare f-wfxln, NSF, sl. edge stn, sl. odor	SH: brn-red-gm
SH: blk-brn-grn-gry-red	LS: wh-tan-gry, vfxln, dense sl. foss (NS) or about middle, sh
LS: wh-tan-gry, f-wfxln, dense sl. foss (NS)	SH: multi.
SH: blk-brn-grn-gry-red	LS: wh-tan-gry, vfxln, dense (NS)
LS: cm-brn-gry, vfxln, chalky, dense (NS)	SH: brn-red-gm
SH: gry-gm-red-brn	LS: wh-tan-gry, vfxln, dense (NS)
LS: cm-brn-gry, vfxln, sl. chalky, dense (NS)	SH: blk, carb
LS: wh-gry, f-wfxln, sl. foss, chalky, dense (NS)	LS: wh-brn, vfxln, sl. foss, chalky, dense (NS)
SH: blk-gry	SH: blk, carb
LS: gm-tan, vfxln, dense, sl. chalky, abundant fresh shamp Δ, (NS)	SH: blk, carb



SH: blk, carb
L5: crn-rgny-brn, vfxln, dense (NS)
SA: blk
AS: as above
SH: blk
AS: as above
L5: crn-brn, vfxln, dense (NS)
SA: Multic. (postils)
L5: CRM-tan, vfxln, dense w/ abundant multic Δ, minor barren ssf (NS)
L5: DIM-brn, vfxln, dense (NS)
(L5: as above, very slowly)

5" 10" 15" 20" 25"

DRILLING TIME Minutes/Foot

Rate of Penetration Decreases

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR H2 Drilling LLC Rig #2
LEASE Paul Beckman A#1-14 IP IP
ELEVATION 2913' KB RTD 4600'

LOCATION 2070' ESK & 830' FWL
SEC 14 TWP 10 S RNG 31 W
COUNTY Thomas STATE Kansas